

Summary Report for Individual Task
091-94E-1067
Maintain RT-(*)/ARC-231(*)
Status: Approved

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: FD5 - This product/publication has been reviewed by the product developers in coordination with the Fort Lee/CASCOM foreign disclosure authority. This product is releasable to students from all requesting foreign countries without restrictions.

Condition: In an operational environment, a user has submitted an inoperable AN/ARC-231 to your repair shop. Your supervisor has directed you to troubleshoot the equipment and verify the fault. At your workstation you have the following: AN/ARC-231(*); AN/GRM-122; Tool Kit TK-105/G; Static Work Station, NSN 4940-01-087-3458; TM 11-6625-3300-10; DA Form 2404, Equipment Inspection And Maintenance Worksheet; DA Form 2407, Maintenance Request; DA Pam 750-8, The Army Maintenance Management System (TAMMS) Users Manual; TB 385-4, Safety Requirements for Maintenance Of Electrical and Electronic Equipment and Local Standard Operating Procedure (SOP). Some iterations of this task should be performed in MOPP 4.

Standard: Test the AN/ARC-231(*) in accordance with TM 11-6625-3300-10. Complete maintenance forms and records in accordance with DA Pam 750-8. Ensure all safety precautions are observed without violation.

Special Condition: None

Safety Risk: Low

MOPP 4: Sometimes

Task Statements

Cue: Your supervisor has directed you to verify the fault on an inoperable AN/ARC-231(*)

DANGER

None

WARNING

- DO NOT BE MISLED by the terms "low voltage" and "low potential". Voltages/potentials as low as 50 volts can cause DEATH under certain conditions.
- Remove or tape all personal metal objects (e.g., watches, rings, and medallions) before working on CE equipment. For Artificial Respiration, refer to FM 21-11.
- Never work on electronic equipment unless there is another person nearby who is familiar with the operation and hazards of the equipment and who is competent in administering first aid. When the technicians are aided by operators, they must be warned about dangerous areas.
- Whenever possible, the power supply to the equipment must be shut off before beginning work on the equipment. Take particular care to ground every capacitor likely to hold a dangerous potential. When working inside the equipment, after the power has been turned off, always ground every part before touching it.
- Be careful not to contact high-voltage connections or 115 volt ac input connections when installing or operating this equipment.
- Whenever the nature of the operation permits, keep one hand away from the equipment to reduce the hazard of current flowing through the body.

CAUTION

This equipment contains parts and assemblies sensitive to damage by electrostatic discharge (ESD). Use ESD precautionary procedures when touching, removing or inserting printed circuit boards.

Remarks: None

Notes: None

Performance Steps

1. Obtain required tools and test equipment. (TM 11-6625-3300-10)
2. Complete appropriate blocks on DA Form 2407. (DA PAM 750-8)
3. Perform visual inspection.
4. Connect test equipment. (TM 11-6625-3300-10)
5. Perform Operational Check. If check passes proceed to step 8, if check fails, continue to PS #6.
6. Identify/verify equipment fault.
Note: Repair is not authorized for AN/ARC-231. If a fault is found, annotate fault on DA Form 2404 and DA Form 2407 and prepare radio for turn-in.
7. Tag defective radio for turn in.
8. Complete DA Form 2407. (DA PAM 750-8)
Note:
9. Request final inspection. (Refer to local SOP)

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Score the Soldier GO if all performance measures are passed (P). Score the Soldier NO-GO if any performance measure is failed (F). If the Soldier fails any performance measure, show what was done wrong and how to do it correctly.

Evaluation Preparation: Ensure all items required in the condition statement (or appropriate substitutions) are on hand and all safety requirements are met.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Obtained required tools and test equipment.			
2. Completed appropriate blocks on DA Form 2407. (DA PAM 750-8)			
3. Performed visual inspection.			
4. Connected test equipment. (TM 11-6625-3300-10)			
5. Perform Operational Check. If check passed proceeded to step 8, if check failed, continued to PS #6.			
6. Identified/verified equipment fault.			
7. Tagged defective radio for turn in.			
8. Completed DA Form 2407.			
9. Requested final inspection.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	DA FORM 2404	EQUIPMENT INSPECTION AND MAINTENANCE WORKSHEET	No	No
	DA FORM 2407	MAINTENANCE REQUEST	No	No
	TB 385-4	SAFETY REQUIREMENTS FOR MAINTENANCE OF ELECTRICAL AND ELECTRONIC EQUIPMENT	No	No
	TM 11-6625-3300-10	Technical Manual Operator's Manual for Plug-in Unit, Electronic Test Equipment	No	No

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT. All operations must conform to the Army Environmental Program, TC 3-34.489 (The Soldier and the Environment), 3-34.5 (ENVIRONMENTAL CONSIDERATIONS {MCRP 4-11B}), AR 200-1 Environmental Protection and Enhancement), local, state, and federal environmental policies, The Clean Air Act (CAA), CAA amendments, National Ambient Air-Quality Standards (NAAQS), as well as OSHA Hazard Communication Standard for Industry, 29 CFR, part 1910.

Safety: In a training environment, leaders must perform a risk assessment in accordance with ATP 5-19, Risk Management. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination. Incidental to Army operations and activities, all operations must provide for public safety, safe and healthful workplaces, procedures and equipment. Observe all safety precautions when using lifting devices and handling heavy parts. Observe all safety and/or environmental precautions regarding electricity, radiation, radio frequency (RF), fuel, lubricants, high pressures, and refrigerants. Provide ventilation for exhaust fumes during equipment operation and use hearing protection when required in accordance with AR 385-10 (The Army Safety Program), The Clear Air Act (CAA), CAA amendments, National Ambient Air Quality Standards (NAAQS), and the OSHA Communication Standard.

Prerequisite Individual Tasks : None

Supporting Individual Tasks : None

Supported Individual Tasks : None

Supported Collective Tasks : None